

CLAIMS

1. A display device comprising:

5 a display part made of a roll-up sheet-like direct-view display element;

a take-up part attached on one end of the display part; the take-up part allowing the display part to be rolled up;

a pulling part attached on an other end of the display part, the pulling part allowing the display part to be roll out;

10 and

a holding part for holding the display part from behind, wherein

the holding part is formed of a linkage, which is stored on a rear surface of the display part when the display part is rolled up, and is stretched across the rear surface of the display part when the display part is rolled out.

2. The display device of claim 1, wherein

20 the linkage consists of two rails crossing in a shape of an X, and

the take-up part and the pulling part each comprise:

a first rail support for supporting one end of one of the rails rotatably; and

25 a second rail support for supporting the other end of the rail rotatably and slidably.

3. The display device of claim 1, wherein

the linkage includes a first rail and a second rail crossing in a shape of an X;

the take-up part includes:

5 a first rail support for supporting one end of the first rail rotatably; and

a second rail support for supporting one end of the second rail rotatably and slidably;

the pulling part includes:

10 a first rail support for supporting the other end of the second rail rotatably, and

a second rail support for supporting the other end of the first rail rotatably and slidably.

15 4. The display device of claim 1, wherein

the linkage consists of a plurality of pairs of rails, each pair having two rails crossing in a shape of an X;

the rails of a rail pair are rotatably connected to the rails of another rail pair at ends thereof; and

20 the take-up part and the pulling part each include:

a first rail support for supporting one end of one of the rails rotatably; and

a second rail support for supporting the other end of the rail rotatably and slidably.

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5. The display device of any one of claims 2 to 4, wherein
the take-up part and the pulling part further each include
an elastic member, the elastic member biasing the slidable
second rail support in a direction away from the first rail
5 support.

6. The display device of claim 1, wherein
the display part includes a first joint part on the rear
surface thereof;

10 the holding part includes a second joint part; and
the first joint part and the second joint part face each
other when the display part is spread out.

7. The display device of claim 6, wherein

15 at least one of the first joint part and the second joint
part is one of a magnet and an electromagnet, and
the first joint part and the second joint part attract
magnetically.

20 8. The display device of claim 1, wherein

at least one of the take-up part and the pulling part is
provided at a side end thereof with a bending part which is bent
backward; and

the display part can be bent by bending the bending part.

9. The display device of claim 1, wherein

the take-up part includes a power circuit for supplying power to the display part and an audiovisual circuit for supplying an audiovisual signal to the display part;

5 the holding part includes a power wiring for supplying the power to the power circuit and an audiovisual wiring for supplying the audiovisual signal to the audiovisual circuit; and

10 the power wiring and the audiovisual wiring are connected to an external power supply and an audiovisual device via a connecting part provided in the pulling part.

10. The display device of any one of claims 1, 7, and 9 wherein

15 the display part is provided on the rear surface thereof with a shield for avoiding one of magnetic influence and electromagnetic influence.